

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 11, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500430, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: M.W. SPENCER NO. 21

Farm Name: SPENCER, ALVA D. .. ESTATE

API Well Number: 47-9500430

Permit Type: Plugging
Date Issued: 12/11/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01 1) Date: September 18, 2013

2) Operator's Well Number

M.W. Spencer No.21

API Well No: 47 - 09

State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

	APPLICAT	ION FOR A PE	KIVIII	IO PLUG A	ND ABANI	DON				
4) WELL TYPE:		X Gas	X	_ Liquid Injec _ Undergroun			Waste Disp) Deep _		allow X	:
5) LOCATION:	Elevation: District:	1084' McElroy	05	Watershed:_ County:	Indian (Tyler	Creek	(Quadrangle	Shirley 7.5	607
6) WELL OPERATA	229 W.	Exploration, Ltd. Main St., Suite 3 urg, WV 26301	01	494487685	7) DESIGN		O AGENT_ Address _		Main St., Suurg, WV 26	
8) OIL & GAS INS Name Address	SPECTOR TO Joe Taylor 497 Claylick Ripley, WV	Road			9) PLUGG Name Address		CONTRAC	TOR		
10) WORK ORDER CASING	The work o	rder for the manne TD-2,238'	er of plug Coal:		l is as follow	rs:				
13" 333' CTS 7" 2,014' <u>LINERS</u>		Gel Plug No. 1 Freepoint, Cut Plug No. 2 Plug No. 3 Plug No. 4 Plug No. 5	2120 t & Pull 1650	0 - 1550 0 - 1030 0 - 280	,	t.)				
		Free point, cut a of any casi Fill Well Bore v Erect Monume	and pull a ing left in with 6%	ı well. Gel Between a			00 ft. ceme	ent plug at b	ottom	
EMENT PLUES WITH NO MOR	MUST BE R THAN	A MINIMUM 300 CAC	OF 10	o CLASS I	A CEMENT HER		Rec	ceive	d	
Inspector 24 hours	hafara narmi	ttad wark aan ac	ammana				NOV	6 2013	tra ,	
mspector 24 nours	before permi	ned work call ed				w	Office V Dept. of E	of Oil and Ga nvironmental	s Protection	
Work order app	roved by Insp	ector //	11					Date /	10-28-13	

Quadrangle West Union

Permit No. Ty1-430

JUN 16 1972

STATE OF WEST VIRGINIAN HOT DEPARTMENT-OF MINES-

DELT. OF MINES

Oil and Gas Division

WELL RECORD 2

y 1377

Rotary_

Recycling X Comb. Water Flood. Storage.

Disposal_

Tantel

With a Kill

	•	. !		(Kind).
Company Quaker State 011 Refining Corporat Address P.O. Box 1327, Parkersburg, W.Va. Farm M. V. Spencer Heirs Acres : 258	Casing and Casing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Indian Creek Well No. 21 Elev 1084 District McElroy County Tyler	Size 20-16 Cond.	!		
The surface of tract is owned in fee by	13-10" ₁ 9 5/8 8 5/8	333	333 .	cmt. to surface
Mineral rights are owned by Quaker State Address	7	2014	2014	
Drilling Commenced 12-13-71 Drilling Completed 2-3-72	4 1/2		-	
Initial open flow cu. ft bbls. Final production cu. ft. per day 5 bbls.	2 . Liners Used		<u> </u>	
Well open24 hrs. before test2 RP. Well treatment details:	Attach copy of c	ementing seed		: .

Shot 100 quarts Nitro

2122 - 2160

Coal was encountered at. Inches None Fresh water___ Salt Water None Producing Sand Big Injun 2072

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale	0'	170'	: ••	
Sand & Shale	170'	332		
Shale	332	4981		
Sand.	498'	615		•
Shale	6151	746	: .	•
Sand :	7461	760'		:
Shale	760	8081		
Sand	808	878'	1	
Shale Shale	878'	1076'	;	*
Sand	1076'	" 1100'		•
Shale	1100'	1280		
Sand	1280	1302'		
Shale	1302	1382		
Sand .	1382	1472	;	
Shale	1472	1604		
Sand (Broken)	1604	1695		
Shale	1695	1742		•
Sand (Broken)	1742'	1805	•	•
Shale	1805			
Sand (Broken)	1850	1865'		_
Shale		1950'		•
Little, Lime	1950 °	1964'		

1980

Received

VON

W Dept. of Environmental Protection Office of Oil and Gas

. Indicates Electric Log tops in the remarks section.

Pencil Cave

Formation	Color	Hard or Soft	Top Feet 3	Bottom Feet	Oil. Gas or	Water	• Remarks
Big Lime Keener Big Injun			1980' 2040' 2072'	2040 ' 2072 ' 2238 '	Gas Pay Oil Pay	2088'	- 2125' - 2152'
					. 022 1 u,	2123	- 2172
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Date	June 1	2.	_ , 19.72
APPROVED QUAKER	STATE OIL	REFINING	CORP
By 💉	Jan	B	. A
	(7	itle) Geo	Janes -

DAVID W. PERKINSON
377 Eastview Drive
Parkersburg, WV 26104
My commission expires June 11, 2020

WW-4A Revised 6-07 Surface Owner Copy CK 35/3/

1)	Date: S	eptembe	r 18	, 2013		
2)	Operator's Well	Number				
88	1	И.W. Spe	ncer	No.21		
3)	API Well No:	47	-	095	=	0430
		State		County		Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface ()wi	ner(s) to be served:	(a) Coal Operator:	
	(a) Name	Alva D. Spencer Estate	Name NA	
	Address	C/O Marcia Mronzinski	Address	7 - 7 -
	Address		Address	
	A SHARE SHARE	3471 Maradee Ct.		
	(b) Name	Farwell, MI 48622	(b) Coal Owner(s) with Declaration	
	Address		Name NA	
			Address	
	(c) Name			
	Address	di d	Name	
	Addiess		Address	
			Manage Control of the	
			NA	
6)	Inspector	Joe Taylor	(c) Coal Lessee with Declaration	
	Address	497 Claylick Road	Name	
		Ripley, WV 25271	Address	
	Telephone	304-380-7469	Up 100 00 101 1 1 100 100	
	retephone	3013007103		
		in the work, and describes 2) The plat (surveyor's map) son you have received these docum	nd Abandon a Well on Form WW-4B, which sets out the parties involved the well and its location and the plugging work order; and showing the well location on Form WW-6 ments is that you have rights regarding the application which are summarized	
	Take no filed thi of the O location Applica	tice that under Chapter 22-6 of the s Notice and Application and acco ffice of Oil and Gas, West Virginia described on the attached Applica- tion, and the plat have been mailed	ever, you are not required to take any action at all. West Virginia Code, the undersigned well operator proposes to file or has mpanying documents for a permit to plug and abandon a well with the Chief a Department of Environmental Protection, with respect to the well at the ation and depicted on the attached Form WW-6. Copies of this Notice, the diby registered or certified mail or delivered by hand to the person(s) named stances) on or before the day of mailing or delivery to the Chief.	
	Take no filed thi of the O location Applica	tice that under Chapter 22-6 of the s Notice and Application and acco ffice of Oil and Gas, West Virginia described on the attached Applica- tion, and the plat have been mailed	west Virginia Code, the undersigned well operator proposes to file or has mpanying documents for a permit to plug and abandon a well-with the Charles a Department of Environmental Protection, with respect to the well at the ation and depicted on the attached Form WW-6. Copies of this Notice, the d by registered or certified mail or delivered by hand to the person(s) named [2013]	
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SURFACE OWNER WAIVER

Operator's Well Number M.W. Spencer No.21 47- 095- 0430

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

<u>Time Limits and methods for filing comments</u>. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned wo	rk described in these ma	aterials, and I have no
objection to a permit being issued on those materials.		
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION	BY A CORPORATION,
ETC.		
+ Christof Vingable Date #5 2013 Name		
Signature By		
Its		Date
	C:	D-4-
	Signature	Date

Form WW-9

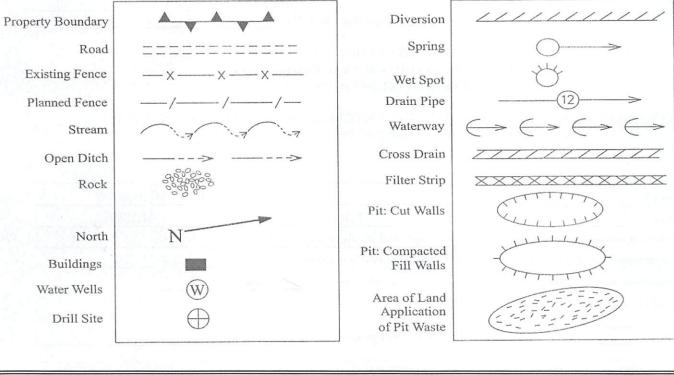
	Page_	3	of	3
AP	I Number 47-	095	-	0430
Operator's Well No.	M.W. S	pencer	No.21	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Ex	pioration, Ltd.				Ob Code -	4944876	180
Watershed	Indian Ci	:eek			Quadrangle	Shi	ı:ley 7.5'	
Elevation	1084'	County	Tyler		District	M	cElroy	
Description o	f anticipated Pit Waste:	Fluids encou	intered in plugging	g subje	ect well			
Do you antici	pate more than 5,000 bbls	of water to compl	lete the proposed well v	work?	Yes	No_	X	
Will a synthe	tic liner be used in pit?	Yes	If so, what mil.?	.10	20			
Proposed Dis	Reuse (at A	ation d Injection (UIC PI Number	Permit Number rm WW-9 for disposal k	ocation))
_	um anticipated for this we - If oilbased, what type? S		******	1				
Additives to b	disposal method? Leave i	n pit. landfill, rer	noved offsite, etc.		NA			
	- If left in pit and plan to s - Landfill or offsite name/p	olidify, what med		nent, lin		N	IA .	
applicable law this application for obtaining penalties for a Company O	sions of the permit are entry or regulation can lead to I certify under penalty of hon form and all attachmenthe information, I believe submitting false informatificial Signature	enforcement action aw that I have pents thereto and the that the informat	on. resonally examined and at, based on my inquiry ion is true, accurate an possibility of fine or im Language A. Can	l am fan y of thos id compl	niliar with the in e individuals im lete. I am aware	nformation mediately that there	submitted on responsible are significan	at C
Company O.	fficial (Typed Name)		Mike McCown			ŃΟ/	<u>6 2013</u>	<u>}</u>
Company O	fficial Title		COO & Designate	ed Age	ent			
						Offic	e of Oil and G	as Protection
Subscribed a	and sworn before me th	is 4th	duty of Oct	o be	/	3 Notary P		
My commiss	ion expires) une),	1, 2020					
Form WW-9			,				OFFICIAL olary Public. Slate of DAVID W. PEI 277 Eastvier Parkersburg. " y commission expire	SEAL of West Virginio RKINSON v. Drivo vv. 26104

Legend

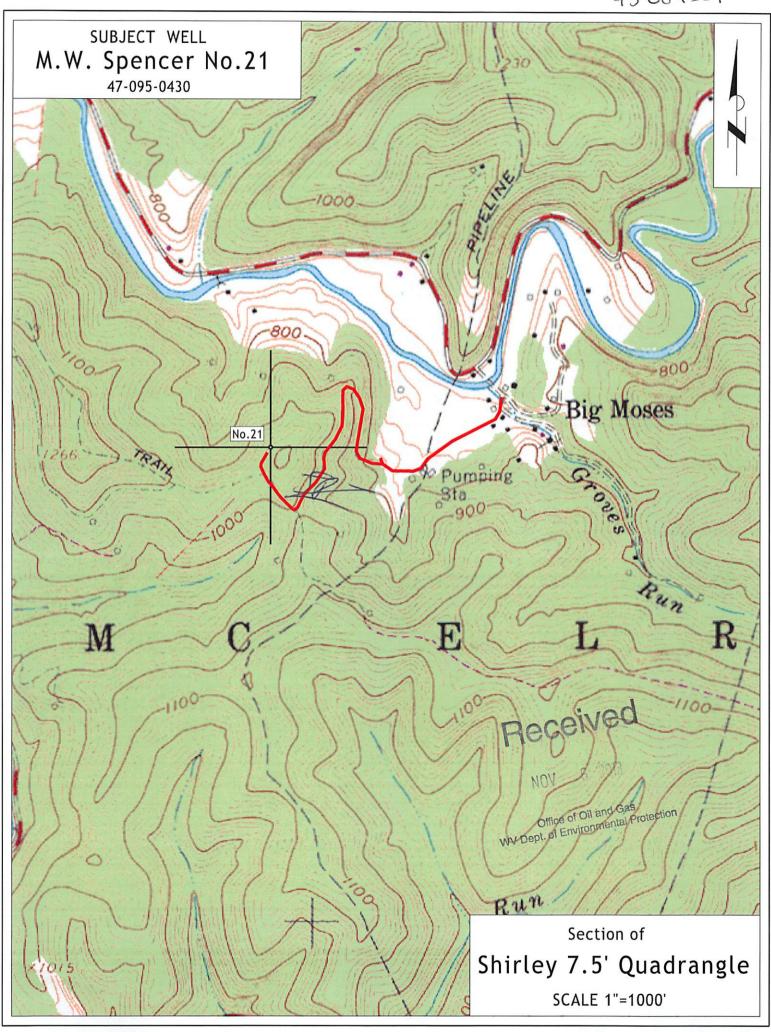


Area I	
Approx. 0.2 Ac.	Prevegetation pH
Area II Approx. 0.1 Ac.	
Tons/Acre or Correct to pH	6.5
alent) 500 Lbs./Acre	e (500 lbs. Minimum)
2 Tons/Acre	
	Approx. 0.2 Ac. Area II Approx. 0.1 Ac. Tons/Acre or Correct to pH alent)

SEED MIXTURES

C 1T			
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Dome	1.4.67		

ttach: rawing(s) of road, location, pit and propo	sed area for land appli	cation	Nea	
notocopied section of involved 7.5' topog		Cece	2013	
Plan Approved by:		K **	W and Gas Protection	
Comments:	150	-	Office Environment	
Title: Zaspectr	72.		Date: 10	28-13
Field Reviewed?	Yes	4,	No	



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47	- 095 - 0430	WELL NO:
FARM NAME:	M.W. Spencer	
RESPONSIBLE PARTY	NAME: Gastar	Exploration, Ltd.
COUNTY:	Tyler	DISTRICT: McElroy
QUADRANGLE:	Shirley 7.5'	
SURFACE OWNER:	Alva D. Spencer Estate	
ROYALTY OWNER:	Alva D. Spencer Estate	
UTM GPS NORTHING:	4,364,545	(NAD 83)
UTM GPS EASTING:	517,819	(NAD 83) GPS ELEVATION: 330 m. 4084
 Datum: Na height abo Accuracy t Data Colle 		
	Real-Time Differ	ential
Mapping Grade	e GPS X Post Processed De Real-Time Difference	INUV 6 0010
I the undersigned, hereby belief and shows all the in prescribed by the Office of	of Oil and Gas.	Office of Oil and Gas the best of my knowledge and Environmental Protection nd the regulations issued and
Signature Pro Gran	Mike McCown	COO & Designated Agent Title
September 18, 20	013	THE
Date September 18, 20	V I J	_